

2_Week_3 | Project

BACK

I want you to create an Express application that consist of:

- a login/signup system, with an authentication based on JWT Token
- a route that return the list of users of the app (need to be authenticated)
- a route that return the list of messages of the current users (need to be authenticate)
- a route that send a message to a specific user (need to be authenticated)

The different routes of the backend should **exactly as** the description in the next page.

FRONT

I want you to create a Vue application that consist of two view:

- a (non logged) view that contain:

- a login component
- a signup component

(only one can be displayed at the same time)

- a (logged) view that contain:

- a home view (empty home view, we arrive on this one after login)
- a view that display the users list
- a view that can send a message to a specific user

(we need to navigate between them through a menu. To send a message to a user, you need to have a `Contact` button when you display a profile.)

You need to recreate the design of this login view, and adapt it for the signup view:
<https://dribbble.com/shots/4274668-Login-Screen>

You need to implement **Vue-router**. No need to connect to the back-end.

BONUS

Back: All users, messages and datas should be stored in a database.

Front: Connect the corresponding components to the corresponding routes in the back-end.

BACK END DESCRIPTION

LOGIN

Url: '**POST** /auth/login'

Parameters (body):

```
{
    username: String,
    password: String
}
```

Return value:

```
{
    success: Boolean,
    token: JWT Token,
}
```

SIGNUP

Url: '**POST** /auth/signup'

Parameters (body):

```
{
    username: String,
    password: String,
    firstName: String (optional),
    lastName: String (optional)
}
```

Return value:

```
{
    success: Boolean,
    content: User Profile (User: see below)
}
```

USERS

Url: '**GET** /users' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: List of Users (User: see below {without password})
}
```

MESSAGES

Url: '**GET** /messages' | *Need authentication*

Return value:

```
{
    success: Boolean,
    content: List of Messages of the current user (Messages: see below)
}
```

Url: '**POST** /messages' | *Need authentication*

Parameters (body):

```
{
    title: String,
    content: String,
    userID: ID or username of the User who will received the message
}
```

Return value:

```
{
    success: Boolean,
}
```

DATA STRUCTURE

User is represented as:

```
{
  id: Uniq User ID,
  username: String, | should be an email, and should be uniq,
  password: String,
  firstName: String (optional),
  lastName: String (optional),
  creationDate: Date
}
```

Message is represented as:

```
{
  id: Uniq Message ID,
  title: String,
  content: String,
  creationDate: Date,
  read: Boolean,
  readDate: Date (optional),
  senderId: ID or username of the User who sent the message,
  receiverId: ID or username of the User who received the message
}
```

ERROR HANDLING

If someone try to access a route that need authentication but doesn't have a good token, it should automatically return this response:

```
{
  success: false,
  message: 'You should be authenticated to access this route!'
}
```